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Substitute for form 1449A/PTO		<b>Complete if Known</b>			
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	09/880,876		
		Filing Date	June 15, 2001		
		First Named Inventor	Yoshiaki Hirano		
		Art Unit	N/A		
		Examiner Name	Not Yet Assigned		
Sheet	1	of	1	Attorney Docket Number	21581-268-US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
DRW	AA	4,863,646	09-05-1989	Watanabe et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
DRW	BA	GB-2277915 A	11-16-1994			X
	BB	GB-852,306	10-26-1960			X
	BC	EP-0866088 A1	09-23-1998			X
DRW	BD	DE-3508439 A1	09-26-1985			X

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See attached Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>

Examiner Signature	DRW ILSON	Date Considered	12/02
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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## INFORMATION DISCLOSURE CITATION

OCT 09 2001

PATENT &amp; TRADEMARK OFFICE

Atty Docket  
21581/0268Serial No.  
09/880,876Applicant  
Yoshiaki Hirano et al.Filing Date  
June 15, 2001Group Art Unit  
1713

## U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date
DRW	AA	3,716,481	2/73	Battaerd	210	32	
1	AB	3,891,576	6/75	Battaerd et al	260	2.1R	
DRW	AC	3,941,724	3/76	Bolto	260	2.1R	

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Sub-Class	Translation
DRW	AD	EP 1 022 058 A1	7/00	EPO	—	—	Yes No
	AE	JP 4-311710	11/92	JP	—	—	Yes No
	AF	JP 2-41528	9/90	JP	—	—	Yes No
	AG	JP 3130642	11/00	JP	—	—	Yes No
	AH	JP 11-12206	1/99	JP	—	—	Yes No
	AI	WO 97/19043	5/97	WIPO	—	—	
	AJ	WO 85/04393	10/85	WIPO	—	—	
	AK	JP 9-508136	8/97	JP	—	—	
	AL	JP 49-31631	8/74	JP	—	—	
	AM	EP 0 841 350 A1	5/98	EPO	—	—	
DRW	AN	EP 0 970 937 A1	1/00	EPO	—	—	Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	
AS	
AT	

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